

Release notes for ENDF/B Development n-094_Pu_244
evaluation



April 26, 2017

- groupie Errors:

1. Very small elastic cross section found
O: Small elastic

```
Multi-Group and Multi-Band Parameters from ENDF/B Data (GROUPIE 2015-2)
```

```
ENDF/B Input and Output Data Filenames
ENDFB.IN
ENDFB.OUT
... [97 more lines]
```

- fudge-4.0 Warnings:

1. Missing a channel with a particular angular momenta combination
resonances / resolved / MultiLevel_BreitWigner (Error # 0): missingResonanceChannel

```
WARNING: Missing a channel with angular momenta combination L = 0, J = 1.5 and S = 1.5 for "capture"
```

2. Potential scattering hasn't converted, you need more L's!
resonances / resolved (Error # 1): potentialScatteringNotConverged

```
WARNING: Potential scattering hasn't converged by L=0 at E=290.0 eV, xs[0]/xs[0]=100.0% > 0.1%
```

3. Cross section does not match sum of linked reaction cross sections
crossSectionSum label 0: total (Error # 0): CS Sum.

```
WARNING: Cross section does not match sum of linked reaction cross sections! Max diff: 0.47%
```

4. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 1 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [nubar]): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

5. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 2 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission] [nubar]): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (5.448835e-09) is too small
```

6. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (total): / Form 'eval': / Component 0 (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

7. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 3 (total): / Form 'eval': / Component 1 (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

8. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (n + Pu244): / Form 'eval': / Component 0 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

9. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 4 (n + Pu244): / Form 'eval': / Component 1 (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

10. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 8 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'6 delayed'] + gamma [total fission]): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

11. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 10 (n + (Pu244-e1 ->Pu244 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.381576e-10) is too small

12. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 11 (n + (Pu244-e2 ->Pu244 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (3.068477e-09) is too small

13. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 12 (n + (Pu244-e3 ->Pu244 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (9.786589e-10) is too small

14. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 13 (n + (Pu244-e4 ->Pu244 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (6.211667e-09) is too small

15. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 14 (n + (Pu244-e5 ->Pu244 + gamma)): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (2.303976e-09) is too small

16. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 15 ($n + (Pu244_e6 \rightarrow Pu244 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (1.334228e-09) is too small

17. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 16 ($n + (Pu244_e7 \rightarrow Pu244 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (3.696779e-09) is too small

18. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 17 ($n + (Pu244_c \rightarrow Pu244 + \text{gamma})$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

19. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 18 ($Pu245 + \text{gamma}$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

20. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 19 ($n + Pu244$ [angular distribution]): / Form 'eval': (Error # 1): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

21. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 20 ($n[\text{multiplicity}:\text{'energyDependent'}, \text{emissionMode}:\text{'prompt'}] + n[\text{emissionMode}:\text{'delayed'}] + \text{gamma} [\text{total fission}] [\text{spectrum}]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

22. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 21 ($n[\text{multiplicity}:\text{'energyDependent'}, \text{emissionMode}:\text{'prompt'}] + n[\text{emissionMode}:\text{'delayed'}] + \text{gamma} [\text{total fission}] [\text{spectrum}]$): / Form 'eval': (Error # 0): Condition num.

WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small

23. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.

Section 22 ($n[\text{multiplicity}:\text{'energyDependent'}, \text{emissionMode}:\text{'prompt'}] + n[\text{emissionMode}:\text{'delayed'}] + \text{gamma} [\text{total fission}] [\text{spectrum}]$): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

24. The ratio of smallest/largest eigenvalue is quite small, possibly leading to numerical instability in downstream codes.
Section 23 (n[multiplicity:'energyDependent', emissionMode:'prompt'] + n[emissionMode:'delayed']) + gamma [total fission] [spectrum]): / Form 'eval': (Error # 0): Condition num.

```
WARNING: Ratio of smallest/largest eigenvalue (0.000000e+00) is too small
```

- fudge-4.0 Errors:

1. ENDF format insists that all outgoing fission neutrons, delayed or otherwise, have spectra. For delayed neutrons this is tough.

Reading ENDF file: ../n-094_Pu-244.endf (Error # 0): No delayed n dist

```
WARNING: More than one delayed fission neutron decay time but no MF = 5 data
```

2. Duplicate Eout in outgoing distribution

Reading ENDF file: ../n-094_Pu-244.endf (Error # 1): Bad Eout

```
WARNING: skipping duplicate e_out = 4770810.0, i1 = 50 1 10.0
```

```
WARNING: skipping duplicate e_out = 4770820.0, i1 = 50 2 20.0
```

```
WARNING: skipping duplicate e_out = 4770830.0, i1 = 50 3 30.0
```

```
WARNING: skipping duplicate e_out = 4770850.0, i1 = 50 4 50.0
```

... plus 2 more instances of this message

3. Energy range of data set does not match cross section range
reaction label 8: n + (Pu244_c ->Pu244 + gamma) / Product: Pu244_c / Decay product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (155641.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
```

4. Energy range of data set does not match cross section range

reaction label 8: n + (Pu244_c ->Pu244 + gamma) / Product: Pu244_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (155641.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (300000.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
```

```
WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
```

... plus 3 more instances of this message

5. Energy range of data set does not match cross section range
reaction label 8: n + (Pu244_c ->Pu244 + gamma) / Product: Pu244_c / Decay product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (300000.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
```

6. Energy range of data set does not match cross section range

reaction label 8: n + (Pu244_c ->Pu244 + gamma) / Product: Pu244_c / Decay product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

```
WARNING: Domain doesn't match the cross section domain: (500000.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
```

7. Energy range of data set does not match cross section range
reaction label 8: n + (Pu244_c ->Pu244 + gamma) / Product: Pu244_c / Decay product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (700000.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
8. Energy range of data set does not match cross section range
reaction label 8: n + (Pu244_c ->Pu244 + gamma) / Product: Pu244_c / Decay product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (1000000.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
9. Energy range of data set does not match cross section range
reaction label 8: n + (Pu244_c ->Pu244 + gamma) / Product: Pu244_c / Decay product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (900000.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
10. Energy range of data set does not match cross section range
reaction label 8: n + (Pu244_c ->Pu244 + gamma) / Product: Pu244_c / Decay product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (1300000.0 -> 20000000.0) vs (115953.0 -> 20000000.0)
11. Calculated and tabulated Q values disagree.
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -6561761.594116211 eV vs -6021270. eV!
12. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
13. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
14. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
15. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

16. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

17. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

18. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

19. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

20. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

21. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

22. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

23. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

24. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

25. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

26. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

27. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

28. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

29. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

30. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

31. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

32. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

33. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

34. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

35. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

36. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

37. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

38. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

39. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

40. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

41. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

42. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

43. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

44. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

45. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

46. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

47. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_r / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

48. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

49. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_s / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (6500000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

50. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

51. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_t / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

52. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

53. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_u / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

54. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

55. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_v / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

56. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

57. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_w / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

58. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

59. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_x / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

60. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

61. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_y / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
62. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_z / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
63. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_z / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
64. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_aa / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
65. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_aa / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
66. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ab / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
67. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ab / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
68. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ac / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
69. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ac / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

70. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ad / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
71. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ad / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
72. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ae / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
73. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ae / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
74. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_af / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
75. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_af / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
76. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ag / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
77. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ag / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
78. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ah / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

79. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ah / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
80. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ai / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
81. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ai / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
82. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_aj / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
83. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_aj / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
84. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ak / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
85. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_ak / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
86. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_al / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)
87. Energy range of data set does not match cross section range
reaction label 9: n[multiplicity:'2'] + Pu243 + gamma / Product: gamma_al / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (7000000.0 -> 20000000.0) vs (6046160.0 -> 20000000.0)

88. Calculated and tabulated Q values disagree.

reaction label 10: n[multiplicity:'3'] + Pu242 + gamma (Error # 0): Q mismatch

WARNING: Calculated and tabulated Q-values disagree: -11595960.3817749 eV vs -1.10555e7 eV!

89. Energy range of data set does not match cross section range

reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

90. Energy range of data set does not match cross section range

reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

91. Energy range of data set does not match cross section range

reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

92. Energy range of data set does not match cross section range

reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

93. Energy range of data set does not match cross section range

reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

94. Energy range of data set does not match cross section range

reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

95. Energy range of data set does not match cross section range

reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

96. Energy range of data set does not match cross section range

reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

97. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

98. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

99. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

100. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

101. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

102. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

103. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

104. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

105. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

106. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
107. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
108. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
109. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
110. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
111. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
112. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
113. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
114. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

115. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
116. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (12500000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
117. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
118. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
119. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
120. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
121. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
122. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
123. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

124. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_r / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
125. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
126. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_s / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
127. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
128. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_t / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
129. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
130. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_u / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
131. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
132. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_v / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)

133. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
134. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_w / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
135. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
136. Energy range of data set does not match cross section range
reaction label 10: n[multiplicity:'3'] + Pu242 + gamma / Product: gamma_x / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (13000000.0 -> 20000000.0) vs (11101200.0 -> 20000000.0)
137. Calculated and tabulated Q values disagree.
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: -17905678.18682861 eV vs -1.73652e7 eV!
138. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_a / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
139. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_a / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
140. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_b / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
141. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_b / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

142. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_c / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
143. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_c / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
144. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_d / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
145. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_d / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
146. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_e / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
147. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_e / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
148. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_f / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
149. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_f / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
150. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_g / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

151. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_g / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
152. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_h / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
153. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_h / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
154. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_i / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
155. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_i / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
156. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_j / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
157. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_j / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
158. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_k / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
159. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_k / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

160. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_l / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
161. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_l / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
162. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_m / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
163. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_m / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
164. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_n / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
165. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_n / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
166. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_o / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
167. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_o / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
168. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_p / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

169. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_p / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
170. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_q / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
171. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_q / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
172. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_r / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
173. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_r / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
174. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_s / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
175. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_s / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
176. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_t / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
177. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_t / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

178. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_u / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
179. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_u / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
180. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_v / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
181. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_v / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
182. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_w / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
183. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_w / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
184. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_x / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
185. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_x / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
186. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_y / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

187. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_y / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
188. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_z / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
189. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_z / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
190. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_aa / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
191. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_aa / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
192. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ab / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
193. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ab / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
194. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ac / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
195. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ac / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

196. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ad / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

197. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ad / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

198. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ae / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

199. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ae / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

200. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_af / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

201. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_af / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

202. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ag / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

203. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ag / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

204. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ah / Multiplicity: (Error # 0): Domain mismatch (a)

WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

205. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ah / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
206. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ai / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
207. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ai / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
208. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_aj / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
209. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_aj / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
210. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ak / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
211. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ak / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
212. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_al / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
213. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_al / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

214. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_am / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
215. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_am / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
216. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_an / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
217. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_an / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
218. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ao / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
219. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ao / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
220. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ap / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
221. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ap / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
222. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ag / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

223. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_aq / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
224. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ar / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
225. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ar / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
226. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_as / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
227. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_as / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
228. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_at / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
229. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_at / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
230. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_au / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
231. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_au / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

232. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_av / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
233. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_av / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
234. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_aw / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
235. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_aw / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
236. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ax / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
237. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ax / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
238. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ay / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
239. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ay / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
240. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_az / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

241. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_az / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
242. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ba / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
243. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ba / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
244. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bb / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
245. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bb / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
246. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bc / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
247. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bc / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
248. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bd / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
249. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bd / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

250. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_be / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
251. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_be / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
252. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bf / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
253. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bf / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
254. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bg / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
255. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bg / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
256. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bh / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
257. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bh / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
258. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bi / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

259. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma.bi / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
260. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma.bj / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
261. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma.bj / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
262. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma.bk / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
263. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma.bk / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
264. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma.bl / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
265. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma.bl / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
266. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma.bm / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
267. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma.bm / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

268. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bn / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
269. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bn / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
270. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bo / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
271. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bo / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
272. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bp / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
273. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bp / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
274. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bq / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
275. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bq / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
276. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_br / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

277. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_br / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
278. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bs / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
279. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bs / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
280. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bt / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
281. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bt / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
282. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bu / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
283. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bu / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
284. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bv / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
285. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bv / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

286. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bw / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
287. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bw / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
288. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bx / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
289. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bx / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
290. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_by / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
291. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_by / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
292. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bz / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
293. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_bz / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
294. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ca / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)

295. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_ca / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
296. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_cb / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
297. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_cb / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
298. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_cc / Multiplicity: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
299. Energy range of data set does not match cross section range
reaction label 11: n[multiplicity:'4'] + Pu241 + gamma / Product: gamma_cc / Distribution: / uncorrelated - angular - isotropic: (Error # 0): Domain mismatch (a)
- WARNING: Domain doesn't match the cross section domain: (19500000.0 -> 20000000.0) vs (17437000.0 -> 20000000.0)
300. Calculated and tabulated Q values disagree.
reaction label 13: Pu245 + gamma (Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 4230313.706268311 eV vs 4.7708e6 eV!
301. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 10: n + (Pu244_c ->Pu244 + gamma) total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 42.42%
302. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 11: n[multiplicity:'2'] + Pu243 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 99.99%
303. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 12: n[multiplicity:'3'] + Pu242 + gamma total gamma multiplicity (Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 99.97%

304. Multiplicity does not match sum of linked product multiplicities!
multiplicitySum label 13: n[multiplicity:'4'] + Pu241 + gamma total gamma multiplicity
(Error # 0): summedMultiplicityMismatch
- WARNING: Multiplicity does not match sum of linked product multiplicities! Max diff: 99.94%
305. Calculated and tabulated Q values disagree.
fissionComponent label 0: /reactionSuite/fissionComponents/fissionComponent[@label='0']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 228283377896.3932 eV vs 1.992928e8 eV!
306. Calculated and tabulated Q values disagree.
fissionComponent label 1: /reactionSuite/fissionComponents/fissionComponent[@label='1']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 228283377896.3932 eV vs 1.992928e8 eV!
307. Calculated and tabulated Q values disagree.
fissionComponent label 2: /reactionSuite/fissionComponents/fissionComponent[@label='2']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 228283377896.3932 eV vs 1.992928e8 eV!
308. Calculated and tabulated Q values disagree.
fissionComponent label 3: /reactionSuite/fissionComponents/fissionComponent[@label='3']
(Error # 0): Q mismatch
- WARNING: Calculated and tabulated Q-values disagree: 228283377896.3932 eV vs 1.992928e8 eV!
309. A covariance matrix was not positive semi-definite, so it has negative eigenvalues.
Section 19 (n + Pu244 [angular distribution]): / Form 'eval': /LegendreLValue L=1 vs 1 (Error # 0): Bad evs
- WARNING: 10 negative eigenvalues! Worst case = -1.192162e-05

- njoy2012 Warnings:

1. In some evaluations, the partial fission reactions MT=19, 20, 21, and 38 are given in File 3, but no corresponding distributions are given. In these cases, it is assumed that MT=18 should be used for the fission neutron distributions.
heatr...prompt kerma (0): HEATR/hinit (3)

```
---message from hinit---mt19 has no spectrum
mt18 spectrum will be used.
```

2. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (1): HEATR/hinit (4)

```
---message from hinit---mf6, mt 16 does not give recoil za= 94243
one-particle recoil approx. used.
```

3. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (2): HEATR/hinit (4)

---message from hinit---mf6, mt 17 does not give recoil za= 94242
one-particle recoil approx. used.

4. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (3): HEATR/hinit (4)

---message from hinit---mf6, mt 37 does not give recoil za= 94241
one-particle recoil approx. used.

5. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (4): HEATR/hinit (4)

---message from hinit---mf6, mt 51 does not give recoil za= 94244
one-particle recoil approx. used.

6. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (5): HEATR/hinit (4)

---message from hinit---mf6, mt 52 does not give recoil za= 94244
one-particle recoil approx. used.

7. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (6): HEATR/hinit (4)

---message from hinit---mf6, mt 53 does not give recoil za= 94244
one-particle recoil approx. used.

8. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (7): HEATR/hinit (4)

---message from hinit---mf6, mt 54 does not give recoil za= 94244
one-particle recoil approx. used.

9. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (8): HEATR/hinit (4)

---message from hinit---mf6, mt 55 does not give recoil za= 94244
one-particle recoil approx. used.

10. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (9): HEATR/hinit (4)

---message from hinit---mf6, mt 56 does not give recoil za= 94244
one-particle recoil approx. used.

11. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (10): HEATR/hinit (4)

---message from hinit---mf6, mt 57 does not give recoil za= 94244
one-particle recoil approx. used.

12. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (11): HEATR/hinit (4)

---message from hinit---mf6, mt 91 does not give recoil za= 94244
one-particle recoil approx. used.

13. Recoil is not given, so one-particle recoil approximation used.
heatr...prompt kerma (12): HEATR/hinit (4)

```
---message from hinit---mf6, mt102 does not give recoil za= 94245
      photon momentum recoil used.
```

14. There is a problem with the fission energy release.
heatr...prompt kerma (13): HEATR/nheat (3)

```
---message from nheat---changed q from 1.992928E+08 to 1.889502E+08
      for mt 18
```

- **xsectplotter Errors:**

1. ENDF format insists that all outgoing fission neutrons, delayed or otherwise, have spectra. For delayed neutrons this is tough.
(Error # 2): No delayed n dist

```
WARNING: More than one delayed fission neutron decay time but no MF = 5 data
```

2. Duplicate Eout in outgoing distribution
(Error # 3): Bad Eout

```
WARNING: skipping duplicate e_out = 4770810.0, i1 = 50 1 10.0
WARNING: skipping duplicate e_out = 4770820.0, i1 = 50 2 20.0
WARNING: skipping duplicate e_out = 4770830.0, i1 = 50 3 30.0
WARNING: skipping duplicate e_out = 4770850.0, i1 = 50 4 50.0
      ... plus 2 more instances of this message
```